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(FILE 'HOME' ENTERED AT 13:22:22 ON 08 AUG 2003)

FILE 'CAPLUS' ENTERED AT 13:22:31 ON 08 AUG 2003 3 S CANCER AND P53 WILD TYPE PROTEIN

FILE 'ADISCTI, ADISINSIGHT, ADISNEWS, BIOSIS, BIOTECHNO, CANCERLIT, CAPLUS, CEN, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, DRUGNL, DRUGU, EMBAL, EMBASE, ESBIOBASE, IFIPAT, IPA, JICST-EPLUS, KOSMET, LIFESCI, MEDICONF, MEDLINE, NAPRALERT, NLDB, NUTRACEUT, ...' ENTERED AT 13:24:44 ON 08 AUG 2003

L2	39 S CANCER AND P53 WILD TYPE PROTEIN
L3	17 DUP REM L2 (22 DUPLICATES REMOVED)
L4	3 S L3 AND ANTICANCER AGENT
L5	2 S CANCER WITH P53 PROTEIN AND ANTICANCER DRUG
L6	140522 S CANCER (P) P53
L7	33004 S L6 AND (ANTICANCER OR CHEMOTHERAPY OR CHEMOTHERAPEUTIC OR N
L8	10192 S L7 AND (P53 (P) INCREAS?)
L9	6529 S L8 AND (AGENT OR DRUG OR COMPOUND)
L10	406 S L9 AND PD<1997
L11	206 DUP REM L10 (200 DUPLICATES REMOVED)

=>

L1

```
2000:383903
  AN
                      CAPLUS
  DN
        133:26844
       Methods and compositions using hydrophobic group- and cationic
  ΤI
       group-containing compounds for restoring conformational stability of a
       protein of the p53 family
       Coffey, Heather Anne; Connell, Richard Damian; Foster, Barbara Ann;
  IN
       Rastinejad, Farzan
 PA
       Pfizer Products Inc., USA
 SO
       PCT Int. Appl., 76 pp.
       CODEN: PIXXD2
 DT
       Patent
 LА
       English
 IC
       ICM A61K031-00
 CC
       1-6 (Pharmacology)
 FAN. CNT 1
       PATENT NO.
                          KIND DATE
                                                  APPLICATION NO.
                                                                     DATE
                          ----
                                 -----
                                                  -----
 PΙ
       WO 2000032175
                           A2
                                 20000608
                                                  WO 1999-IB1916
                                                                     19991201
      WO 2000032175
                           AЗ
                                 20000803
               AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
               CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG,
               KZ, MD, RU, TJ, TM
          RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
               CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI US 1998-110542
                                19981202
OS
      MARPAT 133:26844
      The invention provides pharmaceutical compds. capable of interacting with
AB
      mutant and nonmutant forms of cancer-related regulatory proteins such
that
      the mutant protein regains the capacity to properly interact with other
      macromols., thereby restoring or stabilizing all or a portion of its wild
      type activity. Regulatory proteins include members of the p53 protein
      family, e.g. p53, p63 and p73. The compds. of the invention are useful
      for cancer treatment. Methods for screening for such pharmacol. compds.
      are also provided. Compds. of the invention contain a hydrophobic group
      (e.g. a planar polycyclic group) and a cationic group (preferably an
      amine) joined by a linker.
     polycyclic amine compd p53 conformation stabilization; cancer treatment
ST
     p53 conformation stabilizing compd; screening antitumor p53 conformation
ΙT
     Protein motifs
         (DNA-binding domain; hydrophobic group- and cationic group-contg.
         compds. for restoring p53-family protein conformational stability)
IT
     DNA
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
         (DNA-binding domain; hydrophobic group- and cationic group-contg.
```

```
compds. for restoring p53-family protein conformational stability)
  IT
      Animal cell line
          (H1299; hydrophobic group- and cationic group-contg. compds. for
         restoring p53-family protein conformational stability)
 IT
      Animal cell line
         (SaOS-2; hydrophobic group- and cationic group-contg. compds. for
         restoring p53-family protein conformational stability)
 IT
      Antitumor agents
         (carcinoma, DLD-1 cell; hydrophobic group- and cationic group-contg.
         compds. for restoring p53-family protein conformational stability)
 IT
      DNA
      RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
         (damage; hydrophobic group- and cationic group-contg. compds. for
         restoring p53-family protein conformational stability)
      Temperature effects, biological
 IT
         (heat, p53 DNA-binding domain thermolability; hydrophobic group- and
         cationic group-contg. compds. for restoring p53-family protein
         conformational stability)
 ΙT
      Alleles
      Antitumor agents
      Molecular association
      Mutation
      Stabilizing agents
      Structure-activity relationship
         (hydrophobic group- and cationic group-contg. compds. for restoring
        p53-family protein conformational stability)
 IT
     p53 (protein)
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
         (hydrophobic group- and cationic group-contg. compds. for restoring
        p53-family protein conformational stability)
IT
     Antitumor agents
         (melanoma, A375.S2 cell; hydrophobic group- and cationic group-contg.
        compds. for restoring p53-family protein conformational stability)
IT
     Mutation
        (missense; hydrophobic group- and cationic group-contg. compds. for
        restoring p53-family protein conformational stability)
IT
     Cyclin dependent kinase inhibitors
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (p21CIP1/WAF1; hydrophobic group- and cationic group-contg. compds.
for
        restoring p53-family protein conformational stability)
IΤ
     Proteins, specific or class
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (p63; hydrophobic group- and cationic group-contg. compds. for
        restoring p53-family protein conformational stability)
IT
     Proteins, specific or class
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (p73; hydrophobic group- and cationic group-contg. compds. for
        restoring p53-family protein conformational stability)
ΙT
     Conformation
        (protein; hydrophobic group- and cationic group-contg. compds. for
        restoring p53-family protein conformational stability)
IT
     58-40-2
               84-96-8
                       13365-37-2
                                      36945-50-3
                                                   74151-33-0
                                                                 103395-43-3
     127136-38-3 259199-65-0 259199-66-1
                                             273921-61-2
     273921-62-3
                   273921-63-4
                                 273921-64-5
                                               273921-65-6
                                                             273921-66-7
     273921-67-8
                  273921-68-9
                                 273921-69-0
                                               273921-70-3
                                                             273921-71-4
    273921-72-5
                  273921-73-6
    RL: BAC (Biological activity or effector, except adverse); THU
    (Therapeutic use); BIOL (Biological study); USES (Uses)
        (hydrophobic group- and cationic group-contg. compds. for restoring
       p53-family protein conformational stability)
```

```
.....
     2000:6873 CAPLUS
AN
     132:175329
DN
     Pharmacological scue of mutant p53 conformatio
                                                         nd function
     Foster, Barbara A.; Coffey, Heather A.; Morin, Michael J.; Rastinejad,
ΑU
     Department of Genomics, Targets, and Cancer Research, Pfizer Central
CS
     Research, Groton, CT, 06340, USA
     Science (Washington, D. C.) (1999), 286(5449), 2507-2510
so
     CODEN: SCIEAS; ISSN: 0036-8075
     American Association for the Advancement of Science
PB
DT
     Journal
LΑ
     English
     1-3 (Pharmacology)
CC
     Compds. that stabilize the DNA binding domain of p53 in the active
AB
     conformation were identified. These small synthetic mols. not only
     promoted the stability of wild-type p53 but also allowed mutant p53 to
     maintain an active conformation. A prototype compd. caused the
     accumulation of conformationally active p53 in cells with mutant p53,
     enabling it to activate transcription and to slow tumor growth in mice.
     With further work aimed at improving potency, this class of compds. may
be
     developed into anticancer drugs of broad utility.
     CP31398 CP257042 p53 gene activation antitumor; conformation DNA binding
ST
     domain p53 antitumor
     Conformation
IT
         (DNA; pharmacol. rescue of mutant p53 conformation and function)
IT
      Gene, animal
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
         (TP53; pharmacol. rescue of mutant p53 conformation and function)
     Structure-activity relationship
ΙT
         (antitumor; pharmacol. rescue of mutant p53 conformation and function)
     Antitumor agents
ΙT
         (pharmacol. rescue of mutant p53 conformation and function)
      259199-65-0, CP 31398
                              259199-66-1, CP 257042
IT
      RL: BAC (Biological activity or effector, except adverse); BIOL
      (Biological study)
         (pharmacol. rescue of mutant p53 conformation and function)
RE.CNT
        27
RE
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 (2) Bullock, N; Proc Natl Acad Sci USA 1997, V94, P14338
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 (8) Friedlander, P; J Biol Chem 1996, V271, P25468 CAPLUS
 (9) Gamble, J; Virology 1988, V162, P452 CAPLUS(10) Hainaut, P; EMBO J 1992, V11, P3513 CAPLUS
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 (17) Miroy, G; Proc Natl Acad Sci USA 1996, V93, P15051 CAPLUS
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 (22) Rosenfeld, M; Neurology 1995, V45, P1533 CAPLUS
 (23) Sato, S; J Biol Chem 1996, V271, P635 CAPLUS
 (24) Selivanova, G; Nature Med 1997, V3, P632 CAPLUS
 (25) Stephen, C; J Mol Biol 1992, V225, P577 CAPLUS
 (26) Taubes, G; Science 1996, V271, P1493 CAPLUS
```

(27) Wang, E; Cell 1989, V57, P379 CAPLUS

pro State of the contract of t

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=> s 273921-61-2/rn
            1 273921-61-2/RN
=> d 15
    ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
RN
     273921-61-2 REGISTRY
     10H-Phenothiazine-10-propanamine, N-[1-(phenylmethyl)-4-piperidinyl]-
CN
     (9CI) (CA INDEX NAME)
     3D CONCORD
FS
     C27 H31 N3 S
MF
     CA
SR
    STN Files:
                CA, CAPLUS, TOXLIT
LC
   Ph-CH2
      NH
      (CH_2)_3
               1 REFERENCES IN FILE CA (1967 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1967 TO DATE)
=> s 273921-73-6/rn
             1 273921-73-6/RN
L6
=> d 16
     ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
L6
     273921-73-6 REGISTRY
RN
     1,3-Propanediamine, N,N-dimethyl-N'-[2-(2-phenylethenyl)-4-quinazolinyl}-
CN
     (9CI)
           (CA INDEX NAME)
     3D CONCORD
FS
    C21 H24 N4
MF
SR
LC
     STN Files:
                 CA, CAPLUS, TOXLIT
            CH CH Ph
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NH-(CH₂)₃-NMe₂

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

```
95149780 EMBASE
AN
     1995149780
DN
     Apoptosis and nuclear levels of p53 protein and proliferating cell nuclear
TI
     antigen in human hepatoma cells cultured with tumor promoters.
ΔU
     Kaneko Y.; Tsukamoto A.
     First Department of Medicine, University of Tokyo, 7-3-1 Hongo, Bunkyo-ku,
CS
     Tokyo 113, Japan
     Cancer Letters, (1995) 91/1 (11-17).
SO
     ISSN: 0304-3835 CODEN: CALEDQ
CY
     Ireland
DT
     Journal: Article
             General Pathology and Pathological Anatomy
FS
     016
             Developmental Biology and Teratology
     021
             Pharmacology
     030
             Drug Literature Index
LA
     English
SL
     English
     Anticancer drugs etoposide and mitomycin C
AB
     increased nuclear p53 protein and decreased
     proliferating cell nuclear antigen (PCNA) of PLC/PRF/5 human hepatoma
     cells. These changes were followed by DNA fragmentation and apoptosis.
     Teleocidin antagonized both apoptosis and alterations of nuclear
     p53 protein and PCNA induced by these anti-cancer
     drugs. In contrast, thapsigargin antagonized only drug
     -induced nuclear accumulation of p53 protein. Therefore, the
     inhibition of apoptosis appears not to be the common mechanism of tumor
     promotion. Both tumor prompters suppressed the increase in
     nuclear p53 protein, suggesting that an inadequate DNA repair
     due to the reduced nuclear accumulation of p53 protein might be
     playing important role in enhancing carcinogenesis.
     Medical Descriptors:
     *apoptosis
     *hepatoma cell
     *tumor promotion: ET, etiology
     article
     cancer cell culture
     carcinogenesis: ET, etiology
     controlled study
     dna repair
     flow cytometry
     human
     human cell
     immunoblotting
     letter
     priority journal
     Drug Descriptors:
       *cycline: EC, endogenous compound
       *protein p53: EC, endogenous compound
       antineoplastic agent: PD, pharmacology
       cell protein: EC, endogenous compound
       dna fragment: EC, endogenous compound
     etoposide: PD, pharmacology
     mitomycin c: PD, pharmacology
      teleocidin
     thapsigargin
      tumor promoter
      (etoposide) 33419-42-0; (mitomycin c) 50-07-7, 74349-48-7; (teleocidin)
     78474-55-2; (thapsigargin) 67526-95-8
```

conducting SmartSELECT searches.

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Structure search limits have been increased. See HELP SLIMIT
for details.
=> s 58-40-2/rn
L1
             1 58-40-2/RN
=> d 11
     ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
     58-40-2 REGISTRY
RN
CN
     10H-Phenothiazine-10-propanamine, N,N-dimethyl- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Phenothiazine, 10-[3-(dimethylamino)propyl]- (8CI)
OTHER NAMES:
CN
     10-[3-(Dimethylamino)propyl]phenothiazine
CN
     3276RP
CN
     A 145
CN
     Ampazine
CN
     Berophen
CN
     Esparin
CN
     Liranol
     N-(3-Dimethylaminopropyl)phenothiazine
CN
     Neo-Hibernex
CN
CN
     Prazin
     Prazine
CN
CN
     Promazine
CN
     Promwill
CN
     Protactyl
CN
     Romtiazin
     RP 3276
CN
CN
     Sinophenin
CN
     Tomil
CN
     Verophen
CN
     Wy 1094
FS
     3D CONCORD
MF
     C17 H20 N2 S
CI
LC
                  AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
       BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS,
       CHEMLIST, CIN, DDFU, DIOGENES, DRUGU, EMBASE, GMELIN*, HSDB*, IPA,
       MEDLINE, MRCK*, NIOSHTIC, PROMT, RTECS*, SPECINFO, TOXLINE, TOXLIT,
       USAN, USPATFULL, VETU
         (*File contains numerically searchable property data)
                       EINECS**, WHO
     Other Sources:
         (**Enter CHEMLIST File for up-to-date regulatory information)
      (CH<sub>2</sub>)<sub>3</sub> - NMe<sub>2</sub>
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992 REFERENCES IN FILE CA (1967 TO DATE)
40 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
992 REFERENCES IN FILE CAPLUS (1967 TO DATE)
29 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d 12

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ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
    13365-37-2 REGISTRY
RN
    1,3-Propanediamine, N'-9-acridinyl-N,N-dimethyl- (9CI) (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
    Acridine, 9-[[3-(dimethylamino)propyl]amino]- (8CI)
OTHER NAMES:
CN
     9-(3'-Dimethylaminopropylamino)acridine
     9-[[3-(Dimethylamino)propyl]amino]acridine
CN
    23002-08-6
DR
    C18 H21 N3
MF
CI
    COM
    STN Files: BEILSTEIN*, BIOSIS, CA, CANCERLIT, CAPLUS, CASREACT,
LC
MEDLINE,
      RTECS*, TOXLINE, TOXLIT
         (*File contains numerically searchable property data)
```

31 REFERENCES IN FILE CA (1967 TO DATE) 31 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> d 25199-66-1/rn

'25199-66-1' MUST END IN '/Q', '/A', '/L', '/S' OR '/B'
The saved name for a query (or structure or screen set) must end with '/Q'. The saved name for an answer set must end with '/A'. The saved name for an L# list must end with '/L'. SDI request names must end with '/S'. To see a list of all saved query, answer set,, and L# list names for this loginid, enter "DISPLAY SAVED" at an arrow prompt (=>). Enter "DISPLAY SAVED/S" to see a list of SDI request names. Enter "DISPLAY SAVED/B" to see a list of BATCH search requests.

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=> s 259199-66-1/rn
L3 1 259199-66-1/RN
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=> d 13

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T.3
    ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS
    259199-66-1 REGISTRY
RN
     Phenol, 5-(benzo[g]quinolin-5-ylamino)-2-[(diethylamino)methyl]- (9CI)
CN
     (CA INDEX NAME)
OTHER NAMES:
    CP 257042
CN
FS
    3D CONCORD
    C24 H25 N3 O
MF
SR
    STN Files: CA, CAPLUS, TOXLIT
LC
```

2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> s127136-38-3

S127136-38-3 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s 127136-38-3/rn

L4 1 127136-38-3/RN

=> d 14

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS

RN 127136-38-3 REGISTRY

CN 1-Piperazineethanol, 4-[4-(benzo[g]quinolin-4-ylamino)phenyl]- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzo[g]quinoline, 1-piperazineethanol deriv.

FS 3D CONCORD

MF C25 H26 N4 O

SR CA

LC STN Files: CA, CAPLUS, CHEMCATS, TOXLINE, TOXLIT

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY SESSION 11.17 11.32

FULL ESTIMATED COST

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FILE COVERS 1947 - 28 Jun 2001 VOL 135 ISS 1 FILE LAST UPDATED: 27 Jun 2001 (20010627/ED)

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This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

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The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

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=> s 16

L7 1 L6

=> d 17 all

- L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2001 ACS
- AN 2000:383903 CAPLUS
- DN 133:26844
- TI Methods and compositions using hydrophobic group- and cationic group-containing compounds for restoring conformational stability of a protein of the p53 family

```
Coffey, Heather Anne; Connell, Richard Damian; Foster, Barbara Ann;
IN
     Rastinejad, Farzan
PA
     Pfizer Products Inc., USA
     PCT Int. Appl., 76 pp.
     CODEN: PIXXD2
DT
     Patent
     English
LΑ
     ICM A61K031-00
IC
     1-6 (Pharmacology)
CC
FAN.CNT 1
                    KIND DATE
                                          APPLICATION NO. DATE
     PATENT NO.
     WO 2000032175 A2 20000608
WO 2000032175 A3 20000803
                            20000608
                                         WO 1999-IB1916 19991201
PΙ
         W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,
             IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
             MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
             SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG,
             KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRAI US 1998-110542
                      P
                           19981202
     MARPAT 133:26844
OS
     The invention provides pharmaceutical compds. capable of interacting with
AΒ
     mutant and nonmutant forms of cancer-related regulatory proteins such
that
     the mutant protein regains the capacity to properly interact with other
     macromols., thereby restoring or stabilizing all or a portion of its wild
     type activity. Regulatory proteins include members of the p53 protein
     family, e.g. p53, p63 and p73. The compds. of the invention are useful
     for cancer treatment. Methods for screening for such pharmacol. compds.
     are also provided. Compds. of the invention contain a hydrophobic group
     (e.g. a planar polycyclic group) and a cationic group (preferably an
     amine) joined by a linker.
     polycyclic amine compd p53 conformation stabilization; cancer treatment
ST
     p53 conformation stabilizing compd; screening antitumor p53 conformation
     stabilizing compd
     Protein motifs
IT
        (DNA-binding domain; hydrophobic group- and cationic group-contg.
        compds. for restoring p53-family protein conformational stability)
ΙT
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (DNA-binding domain; hydrophobic group- and cationic group-contg.
        compds. for restoring p53-family protein conformational stability)
     Animal cell line
ΙT
        (H1299; hydrophobic group- and cationic group-contg. compds. for
        restoring p53-family protein conformational stability)
IT
     Animal cell line
        (SaOS-2; hydrophobic group- and cationic group-contg. compds. for
        restoring p53-family protein conformational stability)
IT
     Antitumor agents
        (carcinoma, DLD-1 cell; hydrophobic group- and cationic group-contg.
        compds. for restoring p53-family protein conformational stability)
IT
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (damage; hydrophobic group- and cationic group-contg. compds. for
        restoring p53-family protein conformational stability)
ΙT
     Temperature effects, biological
        (heat, p53 DNA-binding domain thermolability; hydrophobic group- and
        cationic group-contg. compds. for restoring p53-family protein
        conformational stability)
IT
     Alleles
     Antitumor agents
```

Molecular association

```
Mutation
     Stabilizing agents
     Structure-activity relationship
        (hydrophobic group- and cationic group-contg. compds. for restoring
        p53-family protein conformational stability)
IT
     p53 (protein)
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (hydrophobic group- and cationic group-contg. compds. for restoring
        p53-family protein conformational stability)
IT
    Antitumor agents
        (melanoma, A375.S2 cell; hydrophobic group- and cationic group-contg.
        compds. for restoring p53-family protein conformational stability)
IT
        (missense; hydrophobic group- and cationic group-contg. compds. for
        restoring p53-family protein conformational stability)
     Cyclin dependent kinase inhibitors
IT
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (p21CIP1/WAF1; hydrophobic group- and cationic group-contg. compds.
for
        restoring p53-family protein conformational stability)
IT
     Proteins, specific or class
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (p63; hydrophobic group- and cationic group-contg. compds. for
        restoring p53-family protein conformational stability)
     Proteins, specific or class
ΙT
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (p73; hydrophobic group- and cationic group-contg. compds. for
        restoring p53-family protein conformational stability)
IT
     Conformation
        (protein; hydrophobic group- and cationic group-contg. compds. for
       restoring p53-family protein conformational stability)
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     (Therapeutic use); BIOL (Biological study); USES (Uses)
        (hydrophobic group- and cationic group-contg. compds. for restoring
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       Methods and compositions using hydrophobic group- and cationic
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       group-containing compounds for restoring conformational stability of a
       protein of the p53 family
       Coffey, Heather Anne; Connell, Richard Damian; Foster, Barbara Ann;
  IN
       Rastinejad, Farzan
       Pfizer Products Inc., USA
 PA
       PCT Int. Appl., 76 pp.
 SO
       CODEN: PIXXD2
 DT
      Patent
 LΑ
      English
 IC
      ICM A61K031-00
 CC
      1-6 (Pharmacology)
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PRAI US 1998-110542
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     The invention provides pharmaceutical compds. capable of interacting with
AB
     mutant and nonmutant forms of cancer-related regulatory proteins such
that
     the mutant protein regains the capacity to properly interact with other
     macromols., thereby restoring or stabilizing all or a portion of its wild
     type activity. Regulatory proteins include members of the p53 protein
     family, e.g. p53, p63 and p73. The compds. of the invention are useful
     for cancer treatment. Methods for screening for such pharmacol. compds.
     are also provided. Compds. of the invention contain a hydrophobic group
     (e.g. a planar polycyclic group) and a cationic group (preferably an
     amine) joined by a linker.
     polycyclic amine compd p53 conformation stabilization; cancer treatment
ST
     p53 conformation stabilizing compd; screening antitumor p53 conformation
     stabilizing compd
IT
     Protein motifs
        (DNA-binding domain; hydrophobic group- and cationic group-contg.
        compds. for restoring p53-family protein conformational stability)
IT
     DNA
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (DNA-binding domain; hydrophobic group- and cationic group-contg.
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compds. for restoring p53-family protein conformational stability)
 IT
      Animal cell line
         (H1299; hydrophobic group- and cationic group-contg. compds. for
         restoring p53-family protein conformational stability)
      Animal cell line
         (SaOS-2; hydrophobic group- and cationic group-contg. compds. for
         restoring p53-family protein conformational stability)
 ΙT
      Antitumor agents
         (carcinoma, DLD-1 cell; hydrophobic group- and cationic group-contg.
         compds. for restoring p53-family protein conformational stability)
 ΙT
      DNA
      RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
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         restoring p53-family protein conformational stability)
 ΙT
      Temperature effects, biological
         (heat, p53 DNA-binding domain thermolability; hydrophobic group- and
         cationic group-contg. compds. for restoring p53-family protein
         conformational stability)
 IT
      Alleles
      Antitumor agents
     Molecular association
     Mutation
      Stabilizing agents
      Structure-activity relationship
         (hydrophobic group- and cationic group-contg. compds. for restoring
         p53-family protein conformational stability)
ΙT
     p53 (protein)
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
         (hydrophobic group- and cationic group-contg. compds. for restoring
        p53-family protein conformational stability)
IT
     Antitumor agents
        (melanoma, A375.S2 cell; hydrophobic group- and cationic group-contg.
        compds. for restoring p53-family protein conformational stability)
ΙT
     Mutation
        (missense; hydrophobic group- and cationic group-contg. compds. for
        restoring p53-family protein conformational stability)
     Cyclin dependent kinase inhibitors
ΙT
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (p21CIP1/WAF1; hydrophobic group- and cationic group-contg. compds.
for
        restoring p53-family protein conformational stability)
IT
     Proteins, specific or class
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (p63; hydrophobic group- and cationic group-contg. compds. for
        restoring p53-family protein conformational stability)
IT
     Proteins, specific or class
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (p73; hydrophobic group- and cationic group-contg. compds. for
        restoring p53-family protein conformational stability)
IT
     Conformation
        (protein; hydrophobic group- and cationic group-contg. compds. for
        restoring p53-family protein conformational stability)
IT
               84-96-8
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    (Therapeutic use); BIOL (Biological study); USES (Uses)
       (hydrophobic group- and cationic group-contg. compds. for restoring
       p53-family protein conformational stability)
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         2000:6873 CAPLUS
AN 
         132:175329
DN
         Pharmacological rescue of mutant p53 conformation and function
ΤI
         Foster, Barbara A.; Coffey, Heather A.; Morin, Michael J.; Rastinejad,
ΑU
         Department of Genomics, Targets, and Cancer Research, Pfizer Central
 CS
         Research, Groton, CT, 06340, USA
         Science (Washington, D. C.) (1999), 286(5449), 2507-2510
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         CODEN: SCIEAS; ISSN: 0036-8075
         American Association for the Advancement of Science
 PB
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         Journal
         English
 LΑ
         1-3 (Pharmacology)
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         Compds. that stabilize the DNA binding domain of p53 in the active
 AΒ
         conformation were identified. These small synthetic mols. not only
         promoted the stability of wild-type p53 but also allowed mutant p53 to
         maintain an active conformation. A prototype compd. caused the
         accumulation of conformationally active p53 in cells with mutant p53,
          enabling it to activate transcription and to slow tumor growth in mice.
         With further work aimed at improving potency, this class of compds. may
         developed into anticancer drugs of broad utility.
         CP31398 CP257042 p53 gene activation antitumor; conformation DNA binding
 ST
          domain p53 antitumor
          Conformation
 ΙT
               (DNA; pharmacol. rescue of mutant p53 conformation and function)
          Gene, animal
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  (1) Bartek, J; Oncogene 1990, V5, P893 CAPLUS
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  (4) Cho, Y; Science 1994, V265, P346 CAPLUS
  (5) Daniels, D; J Mol Biol 1994, V243, P639 CAPLUS
  (6) Euhus, D; J Surg Oncol 1986, V31, P229 MEDLINE
  (7) Foster, B; data not shown
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  (9) Gamble, J; Virology 1988, V162, P452 CAPLUS(10) Hainaut, P; EMBO J 1992, V11, P3513 CAPLUS
  (11) Halazonetis, T; EMBO J 1993, V12, P1021 CAPLUS
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  (14) Kern, S; Science 1991, V252, P1708 CAPLUS
  (15) Legros, Y; Oncogene 1994, V9, P3689 CAPLUS
  (16) Milner, J; Oncogene 1990, V5, P1683 CAPLUS
  (17) Miroy, G; Proc Natl Acad Sci USA 1996, V93, P15051 CAPLUS
  (18) Nielsen, L; Cancer Gene Ther 1997, V4, P129 CAPLUS
  (19) O'Connor, P; Cancer Res 1997, V57, P4285 CAPLUS (20) Pavletich, N; Genes Dev 1993, V7, P2556 CAPLUS
  (21) Prusiner, S; Science 1997, V278, P243
  (22) Rosenfeld, M; Neurology 1995, V45, P1533 CAPLUS
  (23) Sato, S; J Biol Chem 1996, V271, P635 CAPLUS
  (24) Selivanova, G; Nature Med 1997, V3, P632 CAPLUS
  (25) Stephen, C; J Mol Biol 1992, V225, P577 CAPLUS
   (26) Taubes, G; Science 1996, V271, P1493 CAPLUS
  (27) Wang, E; Cell 1989, V57, P379 CAPLUS
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       Methods and compositions using hydrophobic group- and cationic
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       protein of the p53 family
       Coffey, Heather Anne; Connell, Richard Damian; Foster, Barbara Ann;
  IN
       Rastinejad, Farzan
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       Pfizer Products Inc., USA
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       PCT Int. Appl., 76 pp.
       CODEN: PIXXD2
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 LΑ
       English
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       ICM A61K031-00
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PRAI US 1998-110542
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      The invention provides pharmaceutical compds. capable of interacting with
AΒ
      mutant and nonmutant forms of cancer-related regulatory proteins such
that
      the mutant protein regains the capacity to properly interact with other
     macromols., thereby restoring or stabilizing all or a portion of its wild
     type activity. Regulatory proteins include members of the p53 protein
     family, e.g. p53, p63 and p73. The compds. of the invention are useful
     for cancer treatment. Methods for screening for such pharmacol. compds.
     are also provided. Compds. of the invention contain a hydrophobic group
     (e.g. a planar polycyclic group) and a cationic group (preferably an
     amine) joined by a linker.
     polycyclic amine compd p53 conformation stabilization; cancer treatment
ST
     p53 conformation stabilizing compd; screening antitumor p53 conformation
IT
     Protein motifs
         (DNA-binding domain; hydrophobic group- and cationic group-contg.
        compds. for restoring p53-family protein conformational stability)
IT
     DNA
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
         (DNA-binding domain; hydrophobic group- and cationic group-contg.
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compds. for restoring p53-family protein conformational stability)
  IΤ
      Animal cell line
          (H1299; hydrophobic group- and cationic group-contg. compds. for
         restoring p53-family protein conformational stability)
 IT
      Animal cell line
          (SaOS-2; hydrophobic group- and cationic group-contg. compds. for
         restoring p53-family protein conformational stability)
 ΙT
         (carcinoma, DLD-1 cell; hydrophobic group- and cationic group-contg.
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 IT
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         restoring p53-family protein conformational stability)
      Temperature effects, biological
 ΙT
         (heat, p53 DNA-binding domain thermolability; hydrophobic group- and
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 IT
      Alleles
      Antitumor agents
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for
        restoring p53-family protein conformational stability)
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     Proteins, specific or class
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (p63; hydrophobic group- and cationic group-contg. compds. for
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IT
     Proteins, specific or class
     RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
        (p73; hydrophobic group- and cationic group-contg. compds. for
        restoring p53-family protein conformational stability)
TΤ
     Conformation
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    (Therapeutic use); BIOL (Biological study); USES (Uses)
       (hydrophobic group- and cationic group-contg. compds. for restoring
       p53-family protein conformational stability)
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         Pharmacological rescue of mutant p53 conformation and function
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          Foster, Barbara A.; Coffey, Heather A.; Morin, Michael J.; Rastinejad,
          Department of Genomics, Targets, and Cancer Research, Pfizer Central
CS
          Research, Groton, CT, 06340, USA
          Science (Washington, D. C.) (1999), 286(5449), 2507-2510
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          CODEN: SCIEAS; ISSN: 0036-8075
          American Association for the Advancement of Science
 PB
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          Journal
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          English
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          Compds. that stabilize the DNA binding domain of p53 in the active
AB
          conformation were identified. These small synthetic mols. not only
          promoted the stability of wild-type p53 but also allowed mutant p53 to
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          accumulation of conformationally active p53 in cells with mutant p53,
          enabling it to activate transcription and to slow tumor growth in mice.
          With further work aimed at improving potency, this class of compds. may
be
          developed into anticancer drugs of broad utility.
 ST
          CP31398 CP257042 p53 gene activation antitumor; conformation DNA binding
          domain p53 antitumor
          Conformation
 IT
                 (DNA; pharmacol. rescue of mutant p53 conformation and function)
 ΙT
          Gene, animal
          RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
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 IT
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 IT
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 (4) Cho, Y; Science 1994, V265, P346 CAPLUS
 (5) Daniels, D; J Mol Biol 1994, V243, P639 CAPLUS
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 (7) Foster, B; data not shown
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(10) Hainaut, P; EMBO J 1992, V11, P3513 CAPLUS
(11) Halazonetis, T; EMBO J 1993, V12, P1021 CAPLUS
 (12) Hollstein, M; Nucleic Acids Res 1994, V22, P3551 CAPLUS
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  (14) Kern, S; Science 1991, V252, P1708 CAPLUS
 (15) Legros, Y; Oncogene 1994, V9, P3689 CAPLUS (16) Milner, J; Oncogene 1990, V5, P1683 CAPLUS
  (17) Miroy, G; Proc Natl Acad Sci USA 1996, V93, P15051 CAPLUS
 (18) Nielsen, L; Cancer Gene Ther 1997, V4, P129 CAPLUS (19) O'Connor, P; Cancer Res 1997, V57, P4285 CAPLUS (20) Pavletich, N; Genes Dev 1993, V7, P2556 CAPLUS
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  (22) Rosenfeld, M; Neurology 1995, V45, P1533 CAPLUS
  (23) Sato, S; J Biol Chem 1996, V271, P635 CAPLUS (24) Selivanova, G; Nature Med 1997, V3, P632 CAPLUS
  (25) Stephen, C; J Mol Biol 1992, V225, P577 CAPLUS
  (26) Taubes, G; Science 1996, V271, P1493 CAPLUS (27) Wang, E; Cell 1989, V57, P379 CAPLUS
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